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Touraj Taghikhany

Associate Professor

**Department of Civil and Environmental
Engineering**

Structural and Earthquake Engineering

h-index (Scopus):

11

Citations (Scopus):

271

Educational Records

#	Degree/Major	University	City	Country	Graduation Date
1	Master of Science in Earthquake Engineering	Sharif University of Technology	Tehran	Iran	Aug. 1996
2	Bachelor of Science in Civil Engineering	Amirkabir University of Technology	Kyoto	Japan	Sep. 1993
3	Ph.D. in Civil Engineering	Kyoto University,	Tehran	Iran	Sep.2004

Research Interests

#	Title	Start date
1	Earthquake Engineering	
2	Structural Dynamics	
3	Control of Structures (Seismic Isolation, Passive Control and Semi Active Control, Decentralized Sensing).	
4	Seismic Hazard Analysis,	
5	Seismic Performance Based Earthquake Engineering.	
6	Seismic Performance of Nonstructural Components.	

Supervised MSc Theses

#	Thesis title	By	Date
1	Numerical nonlinear model of elastomeric bearing including the axial load and end rotation	Farnush Pishgahi & Touraj Taghikhany	September 2021
2	Investigation of seismic behavior of structures with adaptive controller in different scenarios of failure and operator and structure uncertainty	Payman Hosseini & Touraj Taghikhany	September 2021
3	Seismic behavior of structures using viscous dampers subjected to near field and far field earthquakes considering nonlinear soil-structure interaction	Seyyed Mahdi Zhavah & Touraj Taghikhany	May 2021
4	Damage Detection in Offshore Structures Using Neural Network Model	Hamid Hejazitalab & Touraj Taghikhany	April 2021
5	Designing of Tuned Mass Damper using in structure considering soil-structure interaction	Elyar Ghaffarian Dallali & Touraj Taghikhany	April 2021
6	Numerical modelling of Tsunami waves effect on the waves energy converters and study the possibility of its dynamic	Pegah Amini & Touraj Taghikhany	March 2021
7	Extreme modeling of friction pendulum isolators and its effect on nonlinear behavior of superstructure	Mahmood Esmaeili & Touraj Taghikhany	December 2020
8	Semi active control of the Sirri offshore jacket platform under the Persian Gulf's environmental time history loading	Behnam Ghadimi & Touraj Taghikhany	July 2020
9	Simultaneous solving of several identification problems in large scale construction systems on a real model	Sadeq Kord & Touraj Taghikhany	January 2020
10	Assessing influence of Nonlinear Modeling of Column-base Connection on Fragility Curves in Steel Structures	Seyedomid Mortezaia & Touraj Taghikhany	July 2019
11	coupling behavior of shear deformation and end rotation of elastomeric seismic isolation bearings	Vahid Garousi & Touraj Taghikhany	April 2019
12	Vulnerability Assessment of Tabriz City Considering Near Fault Effect	Nasim Homayounseresht & Touraj Taghikhany	February 2019
13	Modeling and Investigation the behavior of seismic isolation system in combination with Fe-based shape memory alloy	Rasoul Moradkhahi & Touraj Taghikhany	July 2018
14	The effect of structural system on selection and scaling of ground motions for nonlinear response history in performance based earthquake engineering	Behnam Hamzehtash & Touraj Taghikhany	March 2018
15	Direct Performance-Based Seismic Design Using Yield Frequency Spectra Of Braced Frames	Mohammadreza Salek Faramarzi & Touraj Taghikhany	February 2018
16	Designing an Adaptive Robust Observer within Robust controller for a Nonlinear Bench Mark Structure	Reza Vosoughi & Touraj Taghikhany	February 2018
17	Limit state consideration for seismic design of structures with viscous dampers	Sina Torabli Langeroudi & Touraj Taghikhany	February 2018
18	Modeling of the effective and interdependence parameters on friction coefficient in adaptive friction concave isolators	Mohsen Hamedi & Touraj Taghikhany	September 2017
19	simulation of near - fault ground motions for performance based earthquake engineering	Rasool Ghorbani & Touraj Taghikhany	February 2017

20	Identification of multiple-input structural systems using decoupled output signals	Ali Norouzi Zarmehri & Touraj Taghikhany	February 2017
21	Feasibility study on new Fe-based shape memory alloy for civil engineering purpose	Alireza Fotouhi Ashin & Touraj Taghikhany	July 2016
22	A study on evaluation of manufacturing a friction pendulum damper	Omid Tabibi Jebeli & Touraj Taghikhany	February 2016
23	Appropriate damping coefficient of nonlinear viscous dampers for collapse prevention level.	Ahmad Sepehri Sefidab & Touraj Taghikhany	February 2016
24	Quantification of the seismic performance factors (SPFs) of the strong-back systems using the FEMA P-695 methodology	Alireza Kalantari & Touraj Taghikhany	February 2016
25	Robust control to mitigate damage impact on structural response	Amin Hosseiniabadshapoori & Touraj Taghikhany	October 2015
26	feasibility assessment for manufacturing a seismic isolator in IRAN	Yousef Hoseindoost & Touraj Taghikhany	October 2015
27	Seismic Performance of structures using adaptive passive negative stiffness	Omid Shafeghat & Touraj Taghikhany	February 2015
28	Probability-based optimal design of friction concave seismic isolators	Mehran Farahibaher & Touraj Taghikhany	February 2015
29	Health monitoring of large scale structures considering asynchronous data influence in WSSN	Arman Mosayebi & Touraj Taghikhany	October 2014
30	Evaluating Collapse Capacity of Steel Moment Frames by using SDOF Systems	Shayan Torabian Esfahani & Touraj Taghikhany	January 2014
31	Decentralized Structural Damage Localization using Wireless Sensor Network	Mohsen Hashemi & Touraj Taghikhany	October 2013
32	(Seismic behavior of Sliding Isolators with Variable Curvature (SIVC	Parisa Shahbazi & Touraj Taghikhany	October 2013
33	Collapse risk of steel moment frame structures with viscous dampers subjected to near field pulse like earthquakes	Seyed Mohammad Reza Ahmadi Namin & Touraj Taghikhany	July 2013
34	Determining attenuation relationship for general intensity drift spectrum (GIDS	Alireza Shokran Neam & Touraj Taghikhany	February 2013
35	Structural Health monitoring strategy by Decentralized wireless sensor network considering asynchronous data influence	Nastaran Dabiran & Touraj Taghikhany	November 2012
36	Directivity effect on near field seismic hazard analysis	Masood Yousefisaboori & Touraj Taghikhany	October 2012
37	Incorporating Epistemic Uncertainties in the Assessment of Seismic Sideway Collapse of Steel Moment Frame Buildings	Ali Sarvi & Touraj Taghikhany	February 2012
38	Structural health monitoring strategies by decentralized wireless sensor network for modal identification	Mohammadhasan Tajik & Touraj Taghikhany	February 2012
39	Evaluation of the Performance of Framed highway Bridges under Near Fault Ground Motions	Abouzar Dolati & Touraj Taghikhany	October 2011
40	Seismic Design of Triple Friction Pendulum Bearing for Near-field Earthquake	Hesamodin Moein Darbari & Touraj Taghikhany	February 2011

41	The effect of fling step on the seismic behaviour of tall buildings	Seyed Shahed Mousavi Algharavi & Touraj Taghikhany	June 2010
42	Decentralized H2/LQG Controller Design for Wireless Structural Sensing and Control Systems	Arash Yeganehfallah & Touraj Taghikhany	June 2010
43	Appropriate intensity measure for seismic design of concrete structure in near-field earthquake	Saman Sabzehzar & Touraj Taghikhany	June 2010
44	Evaluation of seismic performance of steel moment frame implementing nonlinear incremental dynamic analysis	Ali Poorgharib Shahi Shahrabak & Touraj Taghikhany	February 2009
45	Seismic Performance of Friction Damped Steel Frames in Near-field Earthquakes Using Performance Based Design Method	Mohsen Kohrangi & Touraj Taghikhany	February 2009
46	Behaviour of the structures with double concave friction pendulum bearings	Seyedmasoud Malekzadeh & Touraj Taghikhany	February 2009
47	Seismic performance of variable friction dampers for protection of vulnerable equipment	Hadi Salehi & Touraj Taghikhany	December 2008
48	SEISMIC PROTECTION OF VULNERALDE EQUIPMENT BY SEMI ACTIVE CONTROL SYSTEMS USING PSEUDO NEGATIVE STIFFNESS ALGORITHM	Arash Aman Pour & Touraj Taghikhany	May 2008
49	STUDY OF UNIFORM HAZARD SPECTRUM WITH CONSIDERING NEAR FIELD IN TABRIZ ZONE	Javid Vafaei Mollamahmood & Touraj Taghikhany	March 2008
50	NUMERICAL STUDY ON DUCTILITY OF ECCENTRIC BRACED FRAME IN COMPARE WITH SPECIALCONCENTRIC BRACED FRAME	Mohammadmahdi Kioumars & Touraj Taghikhany	March 2008
51	ANALYSIS OF VULNERABILITY AND RETROFIT OF MASONARY BUILDING WITH COLUMN	Mohammad Arabameri & Touraj Taghikhany	March 2008

Journal Papers

Portal Records

- Behnam Ghadimi, Touraj Taghikhany, "Dynamic Response Assessment of an Offshore Jacket Platform with Semi-Active Fuzzy Based Controller: A Case Study", OCEAN ENGINEERING, September 2021 Vol. 238, Num. 109747, Page 1-14, September 2021,
- Mohammadreza Salek Faramarzi, Touraj Taghikhany, "A comparative performance-based seismic assessment of strongback steel braced frames", Journal of Building Engineering, July 2021 Vol. 44, Num. 102983, Page 1-19, July 2021,
- Touraj Taghikhany, Vahid Garousi, "Numerical study on the end rotation effect of elastomeric bearing on their mechanical behavior in flexible bridges", Amirkabir Journal of Civil Engineering, June 2021 Vol. 1, Num. 1, Page 1-23, June 2021,
- Amin Hosseiniabadshapoori, Touraj Taghikhany, Milad Jahangiri, "Optimal Tuned Direct Adaptive Controller for Seismic Protecting of Structures", JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES, January 2021 Vol. 0, Num. 0, Page 1-14, January 2021,
- Mohammadreza Salek Faramarzi, Touraj Taghikhany, "Direct performance-based seismic design of strongback steel braced systems", Structures, December 2020 Vol. 28, Num. 1, Page 482-495, December 2020,
- Ahmad Sepehri Sefidab, Touraj Taghikhany, Seyed Mohammad Reza Ahmadi Namin, "Seismic design and assessment of structures with viscous dampers at limit state levels: Focus on probability of damage in devices", STRUCTURAL DESIGN OF TALL AND SPECIAL BUILDINGS, January 2019 Vol. 28, Num. 0, Page 1-15, January 2019,

- 7 Omid Shafeghat, Touraj Taghikhany, "Seismic Behavior of Structures by Engaging Adaptive Passive Negative Stiffness Device (Seismic Nonlinear Behavior Effect)", *Civil Engineering Sharif*, December 2018 Vol. 34-2, Num. 0, Page 135-145, December 2018,
- 8 Kaveh Mousavi Darzikolayi, Touraj Taghikhany, "Evaluation of Steel Special Moment Frame Seismic Performance Factors Subjected to Far-field and Near-field Ground Motions", , May 2018 Vol. 50, Num. 1, Page 37-52, May 2018,
- 9 Hesamaldin Moeindarbari, Touraj Taghikhany, "Seismic reliability assessment of base-isolated structures using artificial neural network: operation failure of sensitive equipment", *Earthquakes and Structures*, May 2018 Vol. 14, Num. 5, Page 425-436, May 2018,
- 10 Amin Hosseiniabadshapoori, Touraj Taghikhany, "Online self-tuning mechanism for direct adaptive control of tall building", *INTERNATIONAL JOURNAL OF ADAPTIVE CONTROL AND SIGNAL PROCESSING*, March 2018 Vol. 32, Num. 3, Page 424-446, March 2018,
- 11 Alireza Shokran Neam, Touraj Taghikhany, "Attenuation Relation for Near Field Shallow Crustal Earthquakes Using NGA-West Database with Mixed-Effect Model in Comparison with Attenuation Relations for Iran", *SCIENTIA IRANICA TRANSACTION A-CIVIL ENGINEERING*, September 2017 Vol. 24, Num. 5, Page 2183-2201, September 2017,
- 12 Parisa Shahbazi, Touraj Taghikhany, "Sensitivity analysis of variable curvature friction pendulum isolator under near-fault ground motions", *SMART STRUCTURES AND SYSTEMS*, June 2017 Vol. 20, Num. 1, Page 23-33, June 2017,
- 13 Hesamaldin Moeindarbari, Touraj Taghikhany, "Novel procedure for reliability-based cost optimization of seismically isolated structures for the protection of critical equipment: A case study using single curved surface sliders", *STRUCTURAL CONTROL & HEALTH MONITORING*, May 2017 Vol. 25, Num. 7, Page 1-19, May 2017,
- 14 Amin Hosseiniabadshapoori, Touraj Taghikhany, Arash Yeganeh Fallah, "Direct adaptive algorithm for seismic control of damaged structures with faulty sensors", *JOURNAL OF VIBRATION AND CONTROL*, January 2017 Vol. 24, Num. 9, Page 1-13, January 2017,
- 15 Samira Babai, Roohollah Amirabadi, Touraj Taghikhany, "Assessment of Semi-Active Tuned Mass Damper Application in Suppressing Seismic-Induced Vibration of an Existing Jacket Platform", *International Journal of Maritime Technology*, September 2016 Vol. 6, Num. 1, Page 1-10, September 2016,
- 16 Arash Yeganeh Fallah, Touraj Taghikhany, "A Modified Sliding Mode Fault Tolerant Control for Large-Scale Civil Infrastructure", *COMPUTER-AIDED CIVIL AND INFRASTRUCTURE ENGINEERING*, December 2015 Vol. online, Num. 1, Page 1-16, December 2015,
- 17 Arash Yeganeh Fallah, Touraj Taghikhany, "Sliding mode fault detection and fault-tolerant control of smart dampers in semi-active control of building structures", *SMART MATERIALS & STRUCTURES*, November 2015 Vol. 24, Num. 12, Page 1-17, November 2015,
- 18 Alireza Shokran Neam, Touraj Taghikhany, "Prediction equations for generalized interstory drift spectrum considering near-fault ground motions", *NATURAL HAZARDS*, October 2015 Vol. online, Num. 1, Page 1-31, October 2015,
- 19 Masood Yousefisaaboori, Touraj Taghikhany, "Near- Field Effect in Probabilistic Seismic Hazard Analysis and Disaggregation of Tabriz City", *Civil Engineering Sharif*, August 2015 Vol. 31.2, Num. 2, Page 23-34, August 2015,
- 20 Abouzar Dolati, Touraj Taghikhany, Mohammad Khanmohammadi, Alireza Rahai, "Scenario-based seismic performance assessment of regular and irregular highway bridges under near- fault ground motions", *Earthquakes and Structures*, March 2015 Vol. 8, Num. 3, Page 571-587, March 2015,
- 21 Hadi Salehi, Touraj Taghikhany, Arash Yeganeh Fallah, "Seismic protection of vulnerable equipment with semi-active control by employing robust and clipped-optimal algorithms", *INTERNATIONAL JOURNAL OF CIVIL ENGINEERING*, December 2014 Vol. 12, Num. 4, Page 413-425, December 2014,
- 22 Hesamaldin Moeindarbari, Touraj Taghikhany, "Seismic optimum design of triple friction pendulum bearing subjected to near-fault pulse-like ground motions", *STRUCTURAL AND MULTIDISCIPLINARY OPTIMIZATION*, December 2014 Vol. vol 50, Num. 6, Page 1-16, December 2014,
- 23 Shayan Torabian Esfahani, Touraj Taghikhany, "Assessment of seismic collapse uncertainties of steel moment-resisting frames by means of single-degree of freedom systems", *Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability*, October 2014 Vol. 228, Num. 5, Page 461-476, October 2014,

- 24 Arash Yeganeh Fallah, Touraj Taghikhany, "Robust semi-active control for uncertain structures and smart dampers", SMART MATERIALS & STRUCTURES, August 2014 Vol. 23, Num. 9, Page 1-15, August 2014,
- 25 Hesamaldin Moeindarbari, Touraj Taghikhany, "OPTIMUM PARAMETERS OF TFPB UNDER NEAR FIELD GROUND MOTION", Civil Engineering Sharif, June 2014 Vol. 30-2, Num. 2, Page 31-45, June 2014,
- 26 Masood Yousefisaaboori, Touraj Taghikhany, "Incorporation of directivity effect in probabilistic seismic hazard analysis and disaggregation of Tabriz city", NATURAL HAZARDS, March 2014 Vol. 73, Num. 1, Page 1-24, March 2014,
- 27 Hesamodin Moein Darbari, Masoud Malekzadeh, Touraj Taghikhany, "Probabilistic analysis of seismically isolated elevated liquid storage tank using multi-phase friction bearing", Earthquakes and Structures, January 2014 Vol. Vol. 6, Num. 1, Page 111-125, January 2014,
- 28 Seyedmasoud Malekzadeh, Touraj Taghikhany, "Multi-stage Performance of Seismically Isolated Bridge Using Triple Pendulum Bearings", ADVANCES IN STRUCTURAL ENGINEERING, July 2012 Vol. 15, Num. 7, Page 1181-1196, July 2012,
- 29 Ali Poorgharib Shahi Shahrababak, Touraj Taghikhany, "Reliability-Based Assessment of Deteriorating Steel Moment Resisting Frames", JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, April 2012 Vol. 71, Num. 1, Page 219-230, April 2012,
- 30 Arash Yeganeh Fallah, Touraj Taghikhany, "Time-delayed Decentralized H2/LQG Controller for Cable Stayed Bridge under Seismic Loading", STRUCTURAL CONTROL & HEALTH MONITORING, February 2012 Vol. In press;10.OCT.2011, Num. 2, Page 1-20, February 2012,
- 31 Touraj Taghikhany, Arash Yeganeh Fallah, "Decentralized H2/LQG Controller with Wireless Feedback System for Cable State Bridge Under Seismic Loading", , December 2011 Vol. 28-2, Num. 3, Page 119-130, December 2011,
- 32 Javid Vafaei Mollamahmood, Touraj Taghikhany, Mohsen Tehrani Zadeh Haghhighifar, "Near Field Effect on Horizontal Equal-Hazard Spectrum of Tabriz City in North-West of Iran", International Journal of Civil Engineering, March 2011 Vol. 9, Num. 1, Page 49-56, March 2011,
- 33 Touraj Taghikhany, Hadi Salehi, "Seismic Evaluation of Variable Friction Controlling Damper for Seismic Protection of Equipments", Majale Elmi Pajouheshi Sharif, February 2011 Vol. 0, Num. 3, Page 147-154, February 2011,
- 34 Seyedmasoud Malekzadeh, Touraj Taghikhany, "Adaptive Behavior of Double Concave Friction Pendulum Bearing and Its Advantageous over Friction Pendulum Systems", Scientia Iranica, April 2010 Vol. 17, Num. 2, Page 0-0, April 2010,
- 35 Hirokazu Iemura, Touraj Taghikhany, Sarvesh Kumar Jain, "Optimum Design of Resilient Sliding Isolation System for Seismic Protection of Equipments", BULLETIN OF EARTHQUAKE ENGINEERING, May 2006 Vol. 5, Num. 1, Page 85-103, May 2006,

Conference Papers

Portal Records







- 1 Vahid Garousi, Touraj Taghikhany, "Numerical study on coupling behavior of shear deformation and end rotation of elastomeric bearings in Bridges ", 5th International Conference on Bridge Engineering, December 2019
- 2 Behnam Hamzehtash, Touraj Taghikhany, "The Effect of Structural System on Selection of Input Ground Motions for Performance Based Seismic Design ", 8th International Conference on Seismology and Earthquake Engineering (SEE8), November 2019
- 3 Touraj Taghikhany, Arsam Taslimi, Shayan Safaei, "The Effect of Site Soil on Seismic Performance of Steel Damped Structure at Close Distance of Active Fault ", 8th International Conference on Seismology and Earthquake Engineering (SEE8), November 2019
- 4 Reza Vosoughi, Touraj Taghikhany, "Nonlinear Adaptive Control of Building Structures with Elasto-Plastic Behavior of Elements under Seismic Motion ", (8th International Conference on Seismology and Earthquake Engineering (SEE8), November 2019

- 5 Mohammadreza Salek Faramarzi, Touraj Taghikhany, "Direct performance-based seismic design of a strong-back bracing system by using yield frequency spectra method ", 8th International Conference on Seismology and Earthquake Engineering (SEE8), November 2019
- 6 Rasoul Moradkhahi, Touraj Taghikhany, "Cyclic Loading Test on High Damping Rubber Bearing (HDRB) Isolators in Combination with FE-Based SMA Dampers ", 8th International Conference on Seismology and Earthquake Engineering (SEE8), November 2019
- 7 Mohammad Pourghasemi Saghand, Touraj Taghikhany, "The effect of friction damper on seismic behavior of Adaptive Negative Stiffness system ", 11th National Conference in Civil Engineering, May 2019
- 8 Reza Vosoughi, Touraj Taghikhany, "Seismic Response Structural Control of Tall Buildings Using Linear and Nonlinear Adaptive Algorithm ", 8th International Conference on Acoustics and Vibration, December 2018
- 9 Rasool Ghorbani, Touraj Taghikhany, "Simulated Near-Fault Ground Motions for Specified Design Scenario in Tabriz City Using Stochastic Model ", 16th European Conference on Earthquake Engineering (16ECEE), June 2018
- 10 Ali Norouzi Zarmehri, Touraj Taghikhany, "System Identification of Large Scale Infrastructure Using Decoupled Synchronized Signals ", The 16Th European Conference on Earthquake Engineering (16ECEE), June 2018
- 11 Touraj Taghikhany, Ehsan Ferdosi, "The effect of passive control systems on seismic performance of moment resisting frames ", 11th international congress on civil engineering, May 2018
- 12 Arash Askari, Touraj Taghikhany, "Negative Stiffness Device; Modeling and Analysis for Seismic Performance Based Optimum Design ", The 6th Asian Conference on Civil, Material and Environmental Sciences (ACCMES), July 2017
- 13 Hesamaldin Moeindarbari, Touraj Taghikhany, "Reliability Based Optimization of a Seismically Isolated Structure Using Artificial Neural Networks As The Response Surface Method ", 16th World Conference on Earthquake Engineering, January 2017
- 14 Alireza Fotouhi Ashin, Touraj Taghikhany, "A Feasibility Study on Production of New Iron Based Shape Memory Alloy as Structural Material ", 5th National and 1st International Conference on Modern Materials and Structures in Civil Engineering, October 2016
- 15 Alireza Kalantari, Touraj Taghikhany, "Effect of back spine rigidity and configuration on seismic behavior of hybrid braced strong-back systems ", 5th National and 1st International Conference on Modern Materials and Structures in Civil Engineering, October 2016
- 16 Amin Hosseiniabadshapoori, Touraj Taghikhany, "Adaptive Control of the Structures with Faulty Sensors ", The 5th Asian Conference on Civil, Material and Environmental Sciences, July 2016
- 17 Amin Hosseiniabadshapoori, Touraj Taghikhany, "Robust Adaptive Control of the Seismically Damaged Structure with Faulty Sensors ", 5th International Conference on Acoustics and Vibration, November 2015
- 18 Touraj Taghikhany, Ahmad Sepehri Sefidab, "The effect of different passive devices on seismic performance of moment resisting concrete frames ", Geotechnical & Urban Earthquake Engineering, September 2015
- 19 Touraj Taghikhany, Arash Yeganeh Fallah, "Application of Sliding Mode Fault Tolerant Control for Cable Stayed Bridge ", The 4th Asian Conference on Civil, Material and Environmental Sciences (ACCMES), August 2015
- 20 Hesamaldin Moeindarbari, Touraj Taghikhany, "APPLICATION OF NEURAL NETWORK IN RELIABILITY PREDICTION OF SEISMICALLY ISOLATED STRUCTURES SUBJECTED TO RANDOM GROUND MOTIONS ", 7th International Conference of Seismology and Earthquake Engineering, May 2015
- 21 Arman Mosayebi, Touraj Taghikhany, "Structural Health Monitoring of Cable Stayed Benchmark Bridge by Wireless Smart Sensor Network ", 4th International Conference on Bridges, January 2015
- 22 Arash Yeganeh Fallah, Touraj Taghikhany, "Sliding Mode Fault Tolerant Control for Actuator Failure in Civil Infrastructures under Seismic Action ", Second European Conference on Earthquake Engineering and Seismology (2ECEE), August 2014
- 23 Mohsen Hashemi, Nastaran Dabiran, Touraj Taghikhany, "STRUCTURAL DAMAGE DETECTION USING DAMAGE LOCATING VECTOR WITH WIRELESS SMART SENSORS ", Second European Conference on Earthquake Engineering and Seismology (2ECEE), August 2014

- 24 Parisa Shahbazi, Touraj Taghikhany, "COMPARATIVE STUDY ON BEHAVIOR OF VARIABLE CURVATURE FRICTION PENDULUM ISOLATOR ", Second European Conference on Earthquake Engineering and Seismology 2ECEES, August 2014
- 25 Touraj Taghikhany, Mohsen Hashemi, Nastaran Dabiran, "Structural Health Monitoring and Damage Localization in a four-storey Benchmark Structure ", 3rd International Conference on Acoustics and Vibration, December 2013
- 26 Seyed Mohammad Reza Ahmadi Namin, Touraj Taghikhany, "Effect of Installation Pattern in Structures with Toggle Bracing Viscous Dampers ", 13th World Conference on Seismic Isolation, Energy Dissipation and Active Vibration Control of Structures, September 2013
- 27 Parisa Shahbazi, Hesamaldin Moeindarbari, Touraj Taghikhany, "Comparative Study on Behavior of Double Variable Curvature Friction Pendulum Systems ", 13th World Conference on Seismic Isolation, Energy Dissipation and Active Vibration Control of Structures, September 2013
- 28 Mehdi Laelghashang, Touraj Taghikhany, "Dynamic Response of Jacket Offshore Structure Using Seismic Isolators Under Lateral Loads ", 5th Offshore Industries Conference, May 2013
- 29 Masood Yousefisaaboori, Touraj Taghikhany, "Probability Seismic Hazard Analysis and Disaggregation of Tabriz City Considering Near field Effect ", The first national conference on urban rehabilitation and retrofitting in the vicinity of active fault -1st nccvaf, February 2013
- 30 Alireza Shokran Neam, Touraj Taghikhany, Saeed Erfani, "Equations for the Estimation of Strong Ground Motions from Shallow Crustal Earthquakes Using the Mixed Effect Model ", The first national conference on urban rehabilitation and retrofitting in the vicinity of active fault -1st nccvaf, February 2013
- 31 Touraj Taghikhany, Mohammadhasan Tajik, "Extracting Structural System Matrices by Using the Combined DVA Measurements ", 2nd International Conference on Acoustics and Vibration -ISAV2012, December 2012
- 32 Touraj Taghikhany, Mohsen Tehrani Zadeh Haghhighifar, Nastaran Dabiran, Abuzar Dolati, "Structural Health Monitoring of Four-Story Benchmark Structure by Wireless Smart Sensor Network Considering Time Synchronization ", 2nd International Conference on Acoustics and Vibration-ISAV2012, December 2012
- 33 Touraj Taghikhany, Mohammadhasan Tajik, Arash Yeganeh Fallah, "Decentralized Smart Sensor Network for Modal Identification of Four-Story Benchmark Structure using Eigensystem Realization Algorithm ", 2nd International Conference on Acoustics and Vibration-ISAV2012, December 2012
- 34 Hesamodin Moein Darbari, Touraj Taghikhany, "Optimum Design of Triple Friction Pendulum Bearing Subjected by Near-Field Ground Motions ", 15th World Conference on Earthquake Engineering, September 2012
- 35 Abuzar Dolati, Touraj Taghikhany, Alireza Rahai, "Seismic Demands of the Case Study Highway Bridge under Near Fault Pulse-Like Ground Motion ", 15th World Conference on Earthquake Engineering, September 2012
- 36 Hadi Salehi, Touraj Taghikhany, "Application of Robust-Optimum Algorithms in Semi-Active Control Strategy for Seismic Protection of Equipment ", 15th World Conference on Earthquake Engineering, September 2012
- 37 Nastaran Dabiran, Abuzar Dolati, Maryam Amirmojahedi, Touraj Taghikhany, "Seismic Hazard Analyses at Karun4 Dam Site ", The first international and third national dams and hydropower in Iran, February 2012
- 38 Saman Sabzehzar, Touraj Taghikhany, "Optimum Intensity Measure for Near field Strong Motion ", 6th International Conference on Seismology and Earthquake Engineering, May 2011
- 39 Ali Poorgharib Shahi Shahrabak, Touraj Taghikhany, "PROBABILITY ASSESSMENT OF SIDESWAY COLLAPSE OF DETERIORATING STEEL MOMENT RESISTING FRAME STRUCTURES ", 14th European Conference on Earthquake Engineering, August 2010
- 40 Mohsen Kohrangi, Touraj Taghikhany, Mohsen Tehrani Zadeh Haghhighifar, "Seismic Performance of New Friction Damper Device under Near Field Earthquake Excitation ", The 10th International Conference on Structural Safety and Reliability, September 2009
- 41 Mohammad Arabameri, Touraj Taghikhany, Mohsen Tehrani Zadeh Haghhighifar, "Vulnerability of hybrid masonry building under seismic action ", 14th World Conference on Earthquake Engineering, October 2008
- 42 Javid Vafaei Mollamahmood, Touraj Taghikhany, Mohsen Tehrani Zadeh Haghhighifar, "Near field uniform seismic hazard spectra of tabriz zone ", 14th World Conference on Earthquake Engineering, October 2008

- 43 Mohsen Tehrani Zadeh Haghhighifar, Touraj Taghikhany, Mohammad Arabameri, "Seismic Vulnerability Assessment of Unreinforced Masonry Buildings in Combination with Steel Frame ", Fourth National Conference of Civil Engineering, May 2008
- 44 Arash Aman Pour, Mohsen Tehrani Zadeh Haghhighifar, Touraj Taghikhany, Faraj Zarei, "Seismic Maintenance of Sensible Equipment by Using Pseudo Negative Stiffness (PNS) Algorithm ", (The Australian Earthquake Engineering Society (AEES2007, November 2007
- 45 Mohsen Tehrani Zadeh Haghhighifar, Touraj Taghikhany, Javid Vafaei Mollamahmood, "Near field Uniform Seismic Hazard Spectra of Tabriz Zone ", 5th International Conference of Seismology and Earthquake Engineering, January 2007
- 46 Mohsen Tehrani Zadeh Haghhighifar, Touraj Taghikhany, Mohammad Arabameri, "Vulnerability of Hybrid Masonry Building under Seismic Action ", 5th International Conference of Seismology and Earthquake Engineering, January 2007
- 47 Mohsen Tehrani Zadeh Haghhighifar, Touraj Taghikhany, "Seismic Protection of Vulnerable Equipment by Using Pseudo Negative Stiffness Algorithm ", 5th International Conference of Seismology and Earthquake Engineering, January 2007

Taught Courses

#	Course title	Description	Headlines	Date
1	Dynamics of Structures	It introduces the dynamic analysis of civil engineering structures under environmental, seismic and impact loads		Fall 2021
2	Seismic hazard analysis	Seismic hazard analysis		Fall 2021
3	Theory of Structure (I)	Study on effect of applied force on structures and their transfer to structural reaction		Spring 2021
4	Control of Structures	Introducing Control Strategies in Civil Engineering, Modeling, Analysis and Design of These Systems		Spring 2021
5	Dynamics of Structures	It introduces the dynamic analysis of civil engineering structures under environmental, seismic and impact loads		Fall 2020
6	Seismic hazard analysis	Seismic hazard analysis		Fall 2020